```
s 12
             5 L2
L3
=> s 13 and holographic
          6687 HOLOGRAPHIC
             6 HOLOGRAPHICS
          6691 HOLOGRAPHIC
                  (HOLOGRAPHIC OR HOLOGRAPHICS)
         14164 HOLOG
            13 HOLOGS
         14165 HOLOG
                  (HOLOG OR HOLOGS)
         14992 HOLOGRAPHIC
                 (HOLOGRAPHIC OR HOLOG)
             0 L3 AND HOLOGRAPHIC
L4
=> d l3 1-5 abs ibib hitstr
     ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
L<sub>3</sub>
AB
     The title compds. [X1(R1)aSiO(3-a)/2]x[(R1)bSiO(4-b)/2]y [R1 = C1-10]
     alkyl, aryl; Xi = R2Si(OR3)bi(R1)ci(OSi(R1)2Xi+1)3-bi-ci; R2 = C2-10
     alkylene; R3 = C1-10 alkyl; i = 1-10; bi, ci = 0-3; Xi+1 = R4SR5Y; R4, R5
     = C1-20 hydrocarbylene; Y = sugar residue; a = 0-2; b = 0-3; x .gtoreq. 2;
     y .gtoreq. 0] having .gtoreq. 2 sugar residues/mol are prepd. E.g.,
     Si[OSiMe2(CH2)3Si[OSiMe2(CH2)3Br]3]4 (81 mg) was treated with 474 mg
     4-(acetylthio)butyl 2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranoside in
     DMF/MeOH at room temp. for 2 h and then treated with MeONa at 35.degree.
     for 24 h to give 95 mg Si[OSiMe2(CH2)3Si[OSiMe2(CH2)2S(CH2)4OG]3]4 (G =
     2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranose residue).
ACCESSION NUMBER:
                         2003:389986 CAPLUS
DOCUMENT NUMBER:
                         138:402032
TITLE:
                         Preparation of organopolycarbosiloxanes having sugar
                         residues
INVENTOR(S):
                         Yoshitake, Makoto; Terunuma, Hiroaki; Matsuoka,
                         Hiroshi; Hatano, Takeshi
                         Dow Corning Toray Silicone Co., Ltd., Japan
PATENT ASSIGNEE(S):
SOURCE:
                         Jpn. Kokai Tokkyo Koho, 9 pp.
                         CODEN: JKXXAF
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO. DATE
                                            -----
     JP 2003146991
                       A2
                            20030521
                                            JP 2001-348118
                                                             20011113
     WO 2003042284
                                           WO 2002-JP11806 20021112
                       A1
                            20030522
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL;
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                        JP 2001-348118
                                                          A 20011113
TT
     528610-24-4P
     RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
     RACT (Reactant or reagent)
        (prepn. of organopolycarbosiloxanes having sugar residues)
RN
     528610-24-4 CAPLUS
```

CN Trisiloxane, 1,5-bis[3-[3-(3-bromopropyl)-1,1-bis[[(3-bromopropyl)dimethylsilyl]oxy]-3,3-dimethyldisiloxanyl]propyl]-3,3-bis[[[3-(3-bromopropyl)-1,1-bis[[(3-bromopropyl)dimethylsilyl]oxy]-3,3-dimethyldisiloxanyl]propyl]dimethylsilyl]oxy]-1,1,5,5-tetramethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

R
$$O-Si$$
 Me $(CH2)3 $Br$$

PAGE 2-A

Br
$$(CH_2)_3$$
 $Si - Me$ $R4$ Me $R5$ Me $R3$

PAGE 4-A

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN L3

The dendrimers (Mn .ltoreq.1,000,000) contg. .gtoreq.1 R4SiR5(3-c)Yc (R4 = $\frac{1}{2}$ AΒ C2-10-alkylene; R5 = C1-10-alkyl, aryl; Y = C1-10-acyloxy, halo, OH; c = 1-3) in a mol. comprise 1-100 mol% X1R1aSiO(3-a)/2 [R1 = C1-10-alkyl, aryl; a = 0-2; X1 = Xi when i = 1; Xi = R2Si(OR3)bi(OSiR12Xi+1)3-bi; R2 = 1C2-10-alkylene; R3 = C1-10-alkyl; Xi+1 = Xi, R4SiR5(3-c)Yc; R4, R5, Y, c =same as above; i = 1-10; bi = 0-3] and 0-99 mol % R1gSiO(4-g)/2 (R1 = same as above; g = 0-3). Thus, vinyltrimethoxysilane, tetrakis (dimethylsiloxy) silane, 1,1,3,3-tetramethyldisiloxane, and dimethylvinylchlorosilane were reacted in this order to give a dendrimer Si[OSiMe2C2H4Si(OSiMe2C2H4SiMe2Cl)3]4 with Mn 2757 and dispersibility index 1.07.

ACCESSION NUMBER:

2001:568376 CAPLUS

DOCUMENT NUMBER:

135:153252

TITLE: INVENTOR(S): Carbosiloxane dendrimers with good reactivity

Watanabe, Toshinori; Onodera, Tetsu; Yoshitake, Makoto Dow Corning Toray Silicone Co., Ltd., Japan

PATENT ASSIGNEE(S):

SOURCE:

Jpn. Kokai Tokkyo Koho, 9 pp.

DOCUMENT TYPE:

Patent

CODEN: JKXXAF

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001213885	A2	20010807	JP 2000-23053	20000131
PRIORITY APPLN. INFO.	:		JP 2000-23053	20000131

IT 352673-70-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(carbosiloxane dendrimers with good reactivity)

RN 352673-70-2 CAPLUS

CN 2,7,12,14,19,24-Hexaoxa-3,6,8,11,13,15,18,20,23-nonasilapentacosane, 13,13-bis[[4,4-bis[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-9,9-dimethoxy-1,1,6,6-tetramethyl-5,10-dioxa-1,4,6,9-tetrasilaundec-1-yl]oxy]-8,8,18,18-tetrakis[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]-3,3,23,23-tetramethoxy-6,6,11,11,15,15,20,20-octamethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

PAGE 4-A

IT 352673-68-8P

CN

RL: IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(dendrimer; carbosiloxane dendrimers with good reactivity)

RN 352673-68-8 CAPLUS

6,11,13,18-Tetraoxa-2,5,7,10,12,14,17,19,22-nonasilatricosane,
2,22-dichloro-12,12-bis[[[2-[3-[2-(chlorodimethylsily1)ethy1]-1,1-bis[[[2-(chlorodimethylsily1)ethy1]dimethylsily1]oxy]-3,3dimethyldisiloxanyl]ethyl]dimethylsilyl]oxy]-7,7,17,17-tetrakis[[[2-(chlorodimethylsily1)ethyl]dimethylsilyl]oxy]-2,5,5,10,10,14,14,19,19,22decamethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

IT 352673-69-9P

> RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dendrimer; carbosiloxane dendrimers with good reactivity)

352673-69-9 CAPLUS RN

CN 6,11,13,18-Tetraoxa-2,5,7,10,12,14,17,19,22-nonasilatricosane-2,22-diol, 12,12-[[[2-[3-[2-(hydroxydimethylsily1)ethyl]-1,1-bis[[[2-(hydroxydimethylsilyl)ethyl]dimethylsilyl]oxy]-3,3dimethyldisiloxanyl]ethyl]dimethylsilyl]oxy]-7,7,17,17-tetrakis[[[2-decamethyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN L3

AB A carbosiloxane dendrimer is disclosed contq. a radically polymerizable group in the mol. and which possesses excellent polymn. reactivity. The carbosiloxane dendrimer can be used to provide org. polymers as afforded by the polymn. of the carbosiloxane dendrimer either alone or with other org. monomers. The radically polymerizable group-functional carbosiloxane dendrimer is represented by YR2Si(R13-b)(OSiR12X1)b (R1 is C1 to C10 alkyl or aryl, R2 is a divalent org. group excluding C1 to C10 alkylene, b is 1 to 3, X1 is a silylalkyl group, and Y is a radically polymerizable group). Also, dendrimer-contg. org. polymer as afforded by the polymn. of (A) the aforesaid carbosiloxane dendrimer and (B) radically polymerizable org. monomer.

ACCESSION NUMBER: 2001:78012 CAPLUS

DOCUMENT NUMBER: 134:131970

TITLE: Carbosiloxane dendrimer and copolymers made therewith INVENTOR(S):

Yoshitake, Makoto; Okawa, Tadashi; Morita, Yoshitsugu;

Furukawa, Haruhiko

PATENT ASSIGNEE(S): Dow Corning Toray Silicone Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

EP 1072602 20010131 EP 2000-306394 20000727 Α1 EP 1072602 20030423 B1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2001040093 JP 1999-216468 19990730 **A2** 20010213 US 6306992 20011023 US 2000-625011 20000725 **B1** PRIORITY APPLN. INFO.: JP 1999-216468 19990730 322476-77-7P 322476-78-8P

RL: IMF (Industrial manufacture); PREP (Preparation)
(carbosiloxane dendrimer and copolymers made therewith)

RN 322476-77-7 CAPLUS

2-Propenamide, N-[3-[5-[2-[1,1-bis[[dimethyl[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]silyl]oxy]-3,3-dimethyl-3-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]disiloxanyl]ethyl]-3,3-bis[[[2-[1,1-bis[[dimethyl[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]silyl]oxy]-3,3-dimethyl-3-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]disiloxanyl]ethyl]dimethylsilyl]oxy]-1,1,5,5-tetramethyltrisiloxanyl]propyl]-2-methyl-

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

(CA INDEX NAME)

RN 322476-78-8 CAPLUS

(9CI)

CN 2-Propenoic acid, 3-[3-[5-[2-[1,1-bis[(dimethyloctylsily1)oxy]-3,3-dimethyl-3-octyldisiloxanyl]ethyl]-3,3-bis[[[2-[1,1-bis[(dimethyloctylsily1)oxy]-3,3-dimethyl-3-octyldisiloxanyl]ethyl]dimethylsilyl]oxy]-1,1,5,5-tetramethyltrisiloxanyl]propoxy]-2-hydroxypropyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

$$\begin{array}{c|c} & \text{Me} & R \\ & | & | \\ \text{Me} - (\text{CH}_2)_7 - \text{Si} - \text{O} \\ & | \\ & \text{Me} \end{array}$$

PAGE 2-A

PAGE 3-A

PAGE 3-B

$$- CH_2 - O - C - CH = CH_2$$
 \parallel
 O

PAGE 4-A

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (carbosiloxane dendrimer and copolymers made therewith) RN 322476-81-3 CAPLUS 1-Propanamine, 3-[5-[2-[1,1-bis[[dimethyl[2-[3,3,3-trimethyl-1,1-CN bis[(trimethylsily1)oxy]disiloxanyl]ethyl]sily1]oxy]-3,3-dimethyl-3-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]disiloxanyl]ethyl]-3,3-bis[[[2-[1,1-bis[[dimethyl[2-[3,3,3-trimethyl-1,1bis[(trimethylsily1)oxy]disiloxanyl]ethyl]silyl]oxy]-3,3-dimethyl-3-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]disiloxanyl [ethyl]dimethylsilyl]oxy]-1,1,5,5-tetramethyltrisiloxanyl]- (9CI) (CA INDEX NAME) *** STRUCTURE DIAGRAM IS NOT AVAILABLE *** REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN GI

$$(Me_3SiO)_2Si-O$$
 O
 $Si(OSiMe_3)_2$
 $(Me_3SiO)_2Si$
 O
 $O-Si(OSiMe_3)_2$
 I

AB The oligosiloxanes I and (Me3SiO)3SiO[Si(OSiMe3)2O]nSi(OSiMe3)3 (n = 2-8)were prepd. by treatment of peralkoxyoligosiloxanes with Me3SiI at 20-60.degree..

ACCESSION NUMBER:

1978:51013 CAPLUS

DOCUMENT NUMBER:

88:51013

TITLE:

SOURCE:

Linear or cyclic oligosiloxanes

INVENTOR(S):

Voronkov, M. G.; Pavlov, S. F.; Dubinskaya, E. I.

PATENT ASSIGNEE(S):

Irkutsk Institute of Organic Chemistry, USSR U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy,

Tovarnye Znaki 1977, 54(37), 76.

CODEN: URXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent

Russian

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
	SU 575350	T	19771005	SU 1976-2307301	19760104			
PRIO	RITY APPLN. INFO.	:	SU	1976-2307301	19760104			
IT 62635-16-9P 65274-92-2P 65353-15-3P								
RL: SPN (Synthetic preparation); PREP (Preparation)								
(prepn. of)								
RN	62635-16-9 CAPL	JS						
CN	Dodecasiloxane, 1,1,1,23,23,23-hexamethyl-3,3,5,5,7,7,9,9,11,11,13,13,15,1							
5,17,17,19,19,21,21-eicosakis[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)								

PAGE 1-A

Me₃Si-O Me₃Si-O Me₃Si-O Me₃Si-O O-SiMe₃ O-SiMe₃ O
Me₃Si-O-Si-O-Si-O-Si-O-Si-O-Si-O-Si
Me₃Si-O Me₃Si-O Me₃Si-O Me₃Si-O O-SiMe₃ O-

PAGE 1-B

RN 65274-92-2 CAPLUS CN Decasiloxane, 1,1,1,19,19,19-hexamethyl-3,3,5,5,7,7,9,9,11,11,13,13,15,15, 17,17-hexadecakis[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

Me₃Si-O Me₃Si-O Me₃Si-O O-SiMe₃ O-SiMe

PAGE 1-B

RN 65353-15-3 CAPLUS CN Decasiloxane, 1,1,1,21,21,21-hexamethyl-3,3,5,5,7,7,9,9,11,11,13,13,15,15, 17,17,19,19-octadecakis[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

Me₃Si-O Me₃Si-O Me₃Si-O Me₃Si-O O-SiMe₃ O-SiMe₃ O
Me₃Si-O-Si-O-Si-O-Si-O-Si-O-Si-O-Si
Me₃Si-O Me₃Si-O Me₃Si-O Me₃Si-O O-SiMe₃ O-

— SiMe3 O—SiMe3 O—SiMe3 - SiMe₃ O-SiMe₃ O-SiMe₃

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

The integral intensities (A) of IR absorption bands of the .nu.as Si-O-Si AB and .delta. (Me)Si vibrations were measured and the dipole moments (.mu.) were detd. for branched permethylsiloxanes and their derivs. XSi(OA)3 (X = Et, Me(CH2)3, C1(CH2)3, C1CH2, C12CH, C13C, CH2:CH, Ph; A = Me3Si), (Me3)nSi(OA)4-n (n = 0-3), A[OSi(OA)2]mOA (m = 2, 3, 4, 5, 10), and [O = 1]mOASi(OA)2]4. The exptl. .mu. values were compared with the calcd. ones according to a vector additive scheme. In the calcns., all stable configurations with a tapered distribution of substituents at the Si-O fragment were considered. The calcd. .mu. values agreed with the exptl. ones with an error near the measurement error. The conformers are energy-equiv. and the population of the corresponding states is proportional to the degree of their degeneration. The changes in frequency and intensity of the .nu.as. Si-O-Si band, in dependence on the no. of Si-O(Si) groups, are discussed. The presence of 2 lines in the dependence A1/2(SiOSi) = f (.sigma.x*) (.sigma.* = Taft const.) revealed that the character of the interaction of Si(OA)3 group with X was different; the X substituents (alkyl groups), the interaction of which with Si atom was of a purely induction character or was conditioned both by the induction and conjugation effects corresponded to 1 and the other lines, resp.

ACCESSION NUMBER: 1977:163033 CAPLUS

DOCUMENT NUMBER: 86:163033

TITLE: Intensities of infrared absorption bands and dipole

moments of branched permethylsiloxanes and their

Voronkov, M. G.; Brodskaya, E. I.; Keiko, V. V.; AUTHOR (S):

Shevchenko, S. G.; Bazhenova, T. N.; Pavlov, S. F.;

Modonov, V. B.; Dubinskaya, E. I.; Frolov, Yu. L. Irkutsk. Inst. Org. Khim., Irkutsk, USSR

CORPORATE SOURCE:

SOURCE: Doklady Akademii Nauk SSSR (1977), 232(5), 1100-3

[Phys. Chem.]

CODEN: DANKAS; ISSN: 0002-3264

DOCUMENT TYPE: Journal

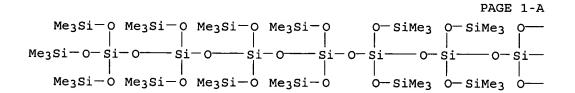
LANGUAGE: Russian

IT 62635-16-9

> RL: PRP (Properties) (IR spectrum of)

RN62635-16-9 CAPLUS

CN Dodecasiloxane, 1,1,1,23,23,23-hexamethyl-3,3,5,5,7,7,9,9,11,11,13,13,15,1 5,17,17,19,19,21,21-eicosakis[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



PAGE 1-B

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